

Pseudo-Unitary Conformal Spin Structures

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Abstract. Covering groups of the conformal pseudo-unitary groups are given. Conformal flat pseudo-unitary geometry is studied. Two fundamental diagrams are given. We introduce and give geometrical characterizations of groups called pseudo-unitary conformal spinoriality groups.

The study of pseudo-unitary spin structures and conformal pseudo-unitary spin structures over an almost complex $2n$ -dimensional manifold V is now presented.

The part played by groups called pseudo-unitary conformal groups is emphasized. The links between pseudo-unitary spin structures and pseudo-unitary conformal spin ones are given.

Keywords. pseudo-unitary spin structures, pseudo-unitary conformal spin structures, pseudo unitary spinoriality groups, pseudo unitary conformal spinoriality groups.

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